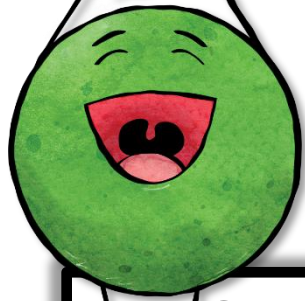


X and Y Intercepts from an Equation

Practice Worksheet



Score (___ / ___)

Name: _____

X and Y Intercepts from an Equation

Date: _____

Worksheet Practice

Period: _____

Directions: Determine the x and y intercept from the given equations. Make sure to bubble in your answers below on each page so that you can check your work. Show all your work!

1 Find the x-intercept:

$$6x - y = 12$$

(___ , ___)

2 Find the y-intercept:

$$-3x - 2y = 6$$

(___ , ___)

3 Find the x-intercept:

$$4x + 3y = -24$$

(___ , ___)

4 Find the x-intercept:

$$-7x + 8y = -56$$

(___ , ___)

Answers

Bubble in your answers below for problems #1-7.

- | | |
|------------------------------|---------------------------------|
| <input type="radio"/> (0,-6) | <input type="radio"/> (0, -1/2) |
| <input type="radio"/> (0,-3) | <input type="radio"/> (-6,0) |
| <input type="radio"/> (2,0) | <input type="radio"/> (0,8) |
| <input type="radio"/> (-3,0) | <input type="radio"/> (5,0) |
| <input type="radio"/> (3,0) | <input type="radio"/> (0,3) |
| <input type="radio"/> (0,2) | <input type="radio"/> (0,5) |
| <input type="radio"/> (8,0) | <input type="radio"/> (0,1/2) |

5 Find the y-intercept:

$$-x - y = -5$$

(___ , ___)

6 Find the y-intercept:

$$-12x + 6y = -3$$

(___ , ___)

7 Find the x-intercept:

$$5x + 4y = 15$$

(___ , ___)

10 Find the y-intercept:

$$-y + 8 = 2x$$

(___ , ___)

11 Find the x-intercept:

$$-y = 9x - 3$$

(___ , ___)

Answers

Bubble in your answers below for problems #8-14.

- | | |
|-------------------------------|-------------------------------|
| <input type="radio"/> (0,-8) | <input type="radio"/> (0,1/3) |
| <input type="radio"/> (0,-10) | <input type="radio"/> (0,8) |
| <input type="radio"/> (0,3) | <input type="radio"/> (8,0) |
| <input type="radio"/> (4,0) | <input type="radio"/> (3,0) |
| <input type="radio"/> (0,4) | <input type="radio"/> (-10,0) |
| <input type="radio"/> (-8,0) | <input type="radio"/> (1/3,0) |
| <input type="radio"/> (0,-2) | <input type="radio"/> (-2,0) |

14 Find the x-intercept:

$$-4x = 3y - 12$$

(___ , ___)

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Great Practice!

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Teacher Notes

- Make sure that students bubble in their answers for the front page (#1-7) and the back page (#8-14). The bubbles allow students to check their answers and results in a more confident student. In addition, it makes it a lot easier for you to do a quick “checking for understanding” when you have the answer key and can compare the bubbles shaded in.
- Make sure that students show their work! Space is given so that students can demonstrate their knowledge of the concept. I do not give students credit if they do not show their work. Also, students need to give a nice reflection (2-3 sentences)!
- You can decide if you want to use the score in the top left.
- If you have any questions or concerns, please email me at mathindemand@hotmail.com.

Score (___/___)

Name: _____

X and Y Intercepts from an Equation

Date: _____

Worksheet Practice

Period: _____

Directions: Determine the x and y intercept from the given equations. Make sure to bubble in your answers below on each page so that you can check your work. Show all your work!

1 Find the x-intercept:

$$6x - y = 12$$

(____,____)

2 Find the y-intercept:

$$-3x - 2y = 6$$

(____,____)

3 Find the x-intercept:

$$4x + 3y = -24$$

(____,____)

4 Find the x-intercept:

$$-7x + 8y = -56$$

(____,____)

5 Find the y-intercept:

$$-x - y = -5$$

(____,____)

6 Find the y-intercept:

$$-12x + 6y = -3$$

(____,____)

7 Find the x-intercept:

$$5x + 4y = 15$$

(____,____)

Answers

Bubble in your answers below for problems #1-7.

- | | |
|------------------------------|---------------------------------|
| <input type="radio"/> (0,-6) | <input type="radio"/> (0, -1/2) |
| <input type="radio"/> (0,-3) | <input type="radio"/> (-6,0) |
| <input type="radio"/> (2,0) | <input type="radio"/> (0,8) |
| <input type="radio"/> (-3,0) | <input type="radio"/> (5,0) |
| <input type="radio"/> (3,0) | <input type="radio"/> (0,3) |
| <input type="radio"/> (0,2) | <input type="radio"/> (0,5) |
| <input type="radio"/> (8,0) | <input type="radio"/> (0,1/2) |

8 Find the y-intercept:

$$y = 4x - 8$$

(____, ____)

9 Find the x-intercept:

$$y = -3x + 12$$

(____, ____)

10 Find the y-intercept:

$$-y + 8 = 2x$$

(____, ____)

11 Find the x-intercept:

$$-y = 9x - 3$$

(____, ____)

12 Find the y-intercept:

$$20 + 2y = x$$

(____, ____)

13 Find the y-intercept:

$$-14 - 7y = -7x$$

(____, ____)

14 Find the x-intercept:

$$-4x = 3y - 12$$

(____, ____)

Answers

Bubble in your answers below for problems #8-14.

- | | |
|-------------------------------|-------------------------------|
| <input type="radio"/> (0,-8) | <input type="radio"/> (0,1/3) |
| <input type="radio"/> (0,-10) | <input type="radio"/> (0,8) |
| <input type="radio"/> (0,3) | <input type="radio"/> (8,0) |
| <input type="radio"/> (4,0) | <input type="radio"/> (3,0) |
| <input type="radio"/> (0,4) | <input type="radio"/> (-10,0) |
| <input type="radio"/> (-8,0) | <input type="radio"/> (1/3,0) |
| <input type="radio"/> (0,-2) | <input type="radio"/> (-2,0) |

Reflection: From this activity, I learned...

Score (___ / ___)

X and Y Intercepts from an Equation

Worksheet Practice

ANSWER KEY

Directions: Determine the x and y intercept from the given equations. Make sure to bubble in your answers below on each page so that you can check your work. Show all your work!

1 Find the x-intercept:

$$\begin{aligned}6x - y &= 12 \\6x - 0 &= 12 \\ \underline{6x} &= \underline{12} \\ 6 & \quad 6 \\ x &= 2 \\ (2, 0)\end{aligned}$$

(2 , 0)

2 Find the y-intercept:

$$\begin{aligned}-3x - 2y &= 6 \\-3(0) - 2y &= 6 \\ \underline{-2y} &= \underline{6} \\ -2 & \quad -2 \\ y &= -3 \\ (0, -3)\end{aligned}$$

(0 , -3)

3 Find the x-intercept:

$$\begin{aligned}4x + 3y &= -24 \\4x + 3(0) &= -24 \\ \underline{4x} &= \underline{-24} \\ 4 & \quad 4 \\ x &= -6 \\ (-6, 0)\end{aligned}$$

(-6 , 0)

4 Find the x-intercept:

$$\begin{aligned}-7x + 8y &= -56 \\-7x + 8(0) &= -56 \\ \underline{-7x} &= \underline{-56} \\ -7 & \quad -7 \\ x &= 8 \\ (8, 0)\end{aligned}$$

(8 , 0)

5 Find the y-intercept:

$$\begin{aligned}-x - y &= -5 \\-(0) - y &= -5 \\ \underline{-y} &= \underline{-5} \\ -1 & \quad -1 \\ y &= 5 \\ (0, 5)\end{aligned}$$

(0 , 5)

6 Find the y-intercept:

$$\begin{aligned}-12x + 6y &= -3 \\-12(0) + 6y &= -3 \\ \underline{6y} &= \underline{-3} \\ 6 & \quad 6 \\ y &= -\frac{1}{2} \\ (0, -\frac{1}{2})\end{aligned}$$

(0 , $-\frac{1}{2}$)

7 Find the x-intercept:

$$\begin{aligned}5x + 4y &= 15 \\5x + 4(0) &= 15 \\ \underline{5x} &= \underline{15} \\ 5 & \quad 5 \\ x &= 3 \\ (3, 0)\end{aligned}$$

(3 , 0)

Answers

Bubble in your answers below for problems #1-7.

- | | |
|---|--|
| <input type="radio"/> (0,-6) | <input checked="" type="radio"/> (0, -1/2) |
| <input checked="" type="radio"/> (0,-3) | <input checked="" type="radio"/> (-6,0) |
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| <input type="radio"/> (-3,0) | <input type="radio"/> (5,0) |
| <input checked="" type="radio"/> (3,0) | <input type="radio"/> (0,3) |
| <input type="radio"/> (0,2) | <input checked="" type="radio"/> (0,5) |
| <input checked="" type="radio"/> (8,0) | <input type="radio"/> (0,1/2) |

8 Find the y-intercept:

$$y = 4x - 8$$

$$y = 4(0) - 8$$

$$y = 0 - 8$$

$$y = -8$$

$$(0, -8)$$

(0, -8)

9 Find the x-intercept:

$$y = -3x + 12$$

$$0 = -3x + 12$$

$$\frac{-12}{-3} = \frac{-12}{-3}$$

$$4 = x$$

$$(4, 0)$$

(4, 0)

10 Find the y-intercept:

$$-y + 8 = 2x$$

$$-y + 8 = 2(0)$$

$$-y + 8 = 0$$

$$\frac{-8}{-1} = \frac{-8}{-1}$$

$$y = 8$$

$$(0, 8)$$

(0, 8)

11 Find the x-intercept:

$$-y = 9x - 3$$

$$-(0) = 9x - 3$$

$$0 = 9x - 3$$

$$\frac{+3}{9} = \frac{+3}{9}$$

$$\frac{3}{9} = \frac{9x}{9}$$

$$\frac{1}{3} = x$$

$$(\frac{1}{3}, 0)$$

(1/3, 0)

12 Find the y-intercept:

$$20 + 2y = x$$

$$20 + 2y = 0$$

$$\frac{-20}{2} = \frac{-20}{2}$$

$$y = -10$$

$$(0, -10)$$

(0, -10)

13 Find the y-intercept:

$$-14 - 7y = -7x$$

$$-14 - 7y = -7(0)$$

$$-14 - 7y = 0$$

$$\frac{+14}{-7} = \frac{+14}{-7}$$

$$-7y = 14$$

$$y = -2$$

$$(0, -2)$$

(0, -2)

14 Find the x-intercept:

$$-4x = 3y - 12$$

$$-4x = 3(0) - 12$$

$$-4x = 0 - 12$$

$$\frac{-4x}{-4} = \frac{-12}{-4}$$

$$x = 3$$

$$(3, 0)$$

(3, 0)

Answers

Bubble in your answers below for problems #8-14.

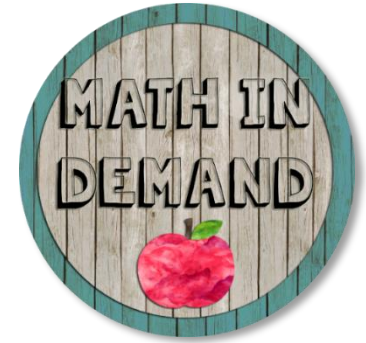
- | | |
|---|---|
| <input checked="" type="radio"/> (0, -8) | <input type="radio"/> (0, 1/3) |
| <input checked="" type="radio"/> (0, -10) | <input checked="" type="radio"/> (0, 8) |
| <input type="radio"/> (0, 3) | <input type="radio"/> (8, 0) |
| <input checked="" type="radio"/> (4, 0) | <input checked="" type="radio"/> (3, 0) |
| <input type="radio"/> (0, 4) | <input type="radio"/> (-10, 0) |
| <input type="radio"/> (-8, 0) | <input checked="" type="radio"/> (1/3, 0) |
| <input checked="" type="radio"/> (0, -2) | <input type="radio"/> (-2, 0) |

Reflection: From this activity, I learned...

Answers will vary!

Recommendations

Love my material and want to check out other resources?




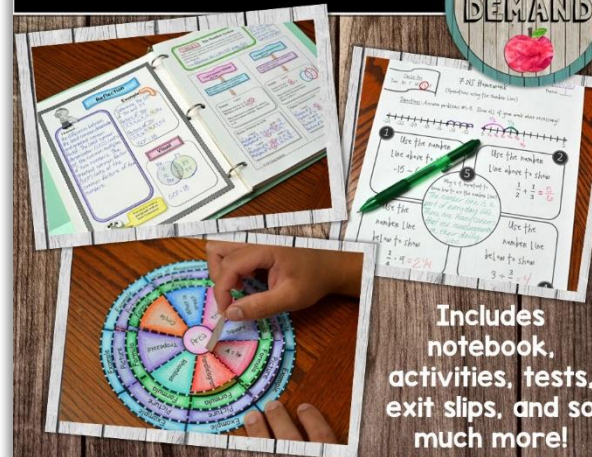
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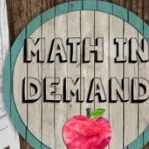
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